ORDER NO. MD0603107C3

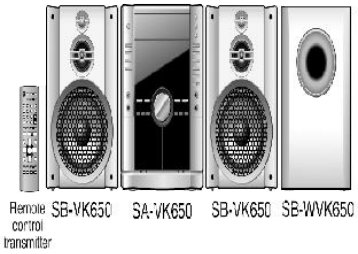
Service Manual

Speaker System

SB-VK650GC

Colour

(S)... Silver Type



SPECIFICATIONS

Specification

Type	3 way, 3 speaker system (Bass reflex)
Speaker unit(s)	Impedance 4
1. Super tweeter	Piezo type
2. Tweeter	6 cm cone type
3. Woofer	16 cm cone type
Input power (IEC)	100 W (Max)
Output sound pressure	82 dB/W (1.0 m)
Cross over frequency	4.16 kHz, 10 kHz
Frequency range	30 Hz to 28 kHz (-16 dB)
	38 Hz to 21 kHz (-10 dB)
Dimensions (W x H x D)	220 mm x 330 mm x 182 mm
Mass	2.6 kg

Notes :

1. Specifications are subject to change without notice.
Mass and dimensions are approximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer.

System : SC-VK650GC-S	Music Center : SA-VK650GC-S
	Front Speaker : SB-VK650GC-S
	Subwoofer : SB-WVK650GC-S
System : SC-VK650GCPS	Music Center : SA-VK650GCPS
	Front Speaker : SB-VK650GC-S
	Subwoofer : SB-WVK650GC-S

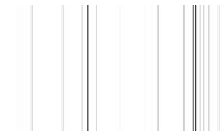
■ System : SC-VK650GCSS — Music Center : SA-VK650GCSS
Front Speaker : SB-VK650GC-S
Subwoofer : SB-WVK650GC-S

■ System : SC-VK650GCTS — Music Center : SA-VK650GCTS
Front Speaker : SB-VK650GC-S
Subwoofer : SB-WVK650GC-S

■ System : SC-VK650GN-S — Music Center : SA-VK650GN-S
Front Speaker : SB-VK650GC-S
Subwoofer : SB-WVK650GC-S

■ System : SC-VK650GS-S — Music Center : SA-VK650GS-S
Front Speaker : SB-VK650GC-S
Subwoofer : SB-WVK650GC-S

System	S
Music Centre System	S
Front Speaker	S
Subwoofer	S



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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

1. Assembling and Disassembling

"ATTENTION SERVICER"
Some chassis components may have sharp edges. Be careful when disassembling and servicing.

1. This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.
2. For reassembly after operation checks or replacement, reverse the respective procedures.
   Special reassembly procedures are described only when required.
3. Select items from the following index when checks or replacement are required.
4. Refer to the Parts No. on the page of "Parts Location and Replacement Parts List" (Section 5), if necessary.

Caution:

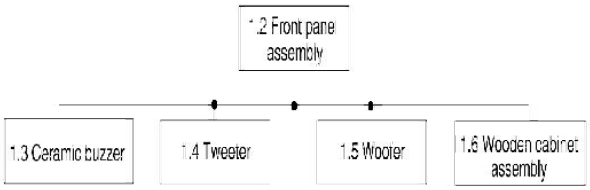
Original screws should be used.

Below is the list of disassembly sections

- **Disassembly of Front panel assembly**
- **Disassembly of Ceramic buzzer**
- **Disassembly of Tweeter**
- **Disassembly of Woofer**

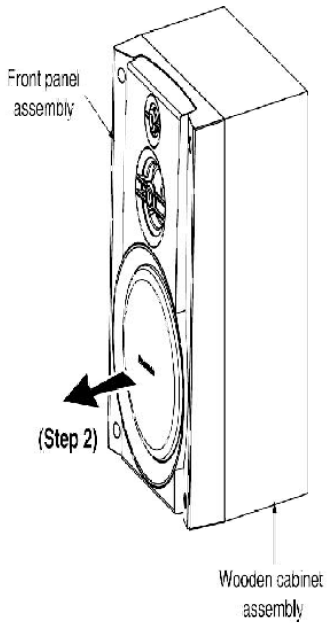
1.1. Disassembly flow chart

The following chart is the procedure for disassembling the casing and inside parts for internal inspection when carrying out the servicing.
To assemble the unit, reverse the steps shown in the chart as below.



1.2. Disassembly of Front panel assembly

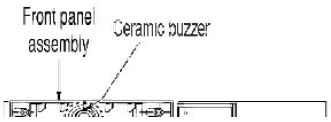
Step 1: Remove 4 screws.



Step 2: Secure the wooden cabinet assembly firmly, then remove the front panel from the wooden cabinet assembly as shown in the picture.

1.3. Disassembly of Ceramic buzzer

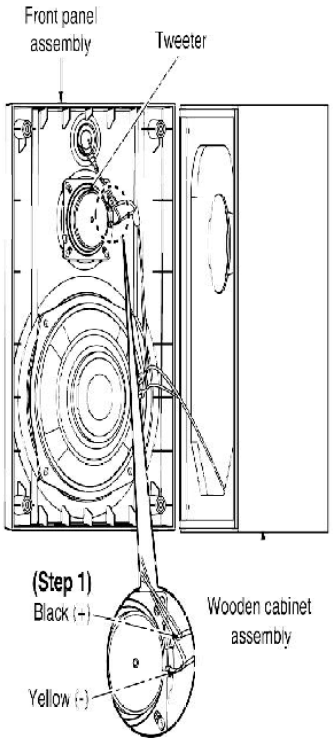
Follow (step 1) to (step 2) in item 1.2.



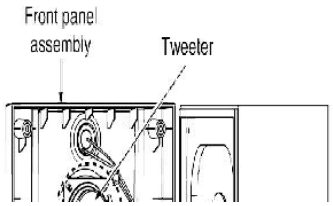
Step 1: Remove the glue from wire assembly.

1.4. Disassembly of Tweeter

Follow (step 1) to (step 2) in item 1.2.



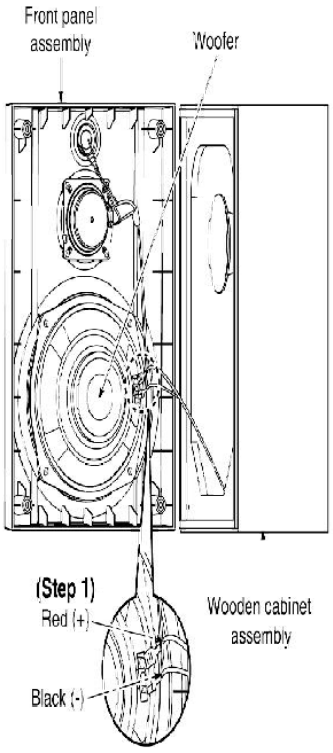
Step 1: Detach the (+) black and (-) yellow wires.



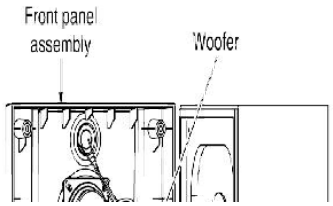
Step 2: Remove 4 screws.

1.5. Disassembly of Woofer

Follow (step 1) to (step 2) in item 1.2.



Step 1: Detach the (+) red and (-) black wires.



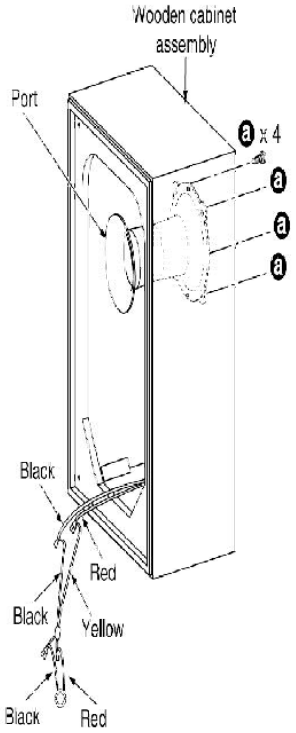
Step 2: Remove 4 screws.

- Disassembly of Wooden cabinet assembly

Follow (step 1) to (step 2) in item 1.2.

Follow (step 1) in item 1.4.

Follow (step 1) in item 1.5.



2. Connection of the Speaker Cables

- Be sure to connect speaker cables before connecting the AC power supply cord.

- The load impedance of any speaker used with this unit must be 4 .

- Be sure to connect the cable from the right speaker to the right terminal and the cable from the left speaker to the left terminal.

1. Twist and pull off the vinyl tip of the speaker cords. If the speaker cords do not have vinyl tips, connect them directly to the terminals. Make sure the bare ends of the wires are not unravelled.

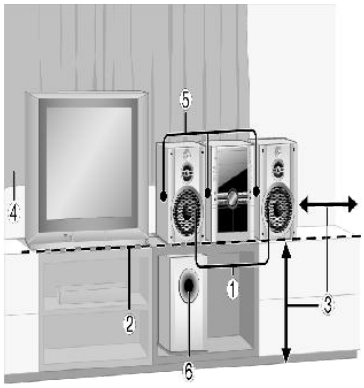
2. Insert the wire to the rear panel of the unit and close the lever.

Notes :

- To prevent damage to circuitry, never short-circuit positive (+) and negative (-) speaker wires.

- Be sure to connect only positive (red) wires to positive (+) terminals and negative (black) wires to negative (-) terminals.

Positioning



Notes on speaker use

- You can damage your speakers and shorten their useful life if you play sound at high levels over extended periods.

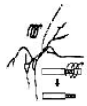
- Reduce the volume in the following cases to avoid damage.

- When playing distorted sound.

- When the speakers emit strange noise (howling) from a / microphone or record player, noise from FM broadcasts, or continuous signals from an oscillator, test disc, or electronic instrument.

- When adjusting the sound quality.

- When turning the unit on or off.



Positioning for best effect

1. You cannot take the front net off the speakers.

2. Set the speakers up on an even surface to prevent them from falling. Take proper precautions to prevent the speakers from falling if you cannot set them up on an even surface.

3. Placing speakers too close to floor, walls, and corners can result in excessive bass.

4. Cover walls and windows with a thick curtain.

5. Keep your speakers at least 10 mm away from the system for proper ventilation.

6. Place the subwoofer on the floor or a strudy shelf so that it would not cause vibration. Leave 10 cm at the rear for ventilation.

If irregular coloring occurs on your television

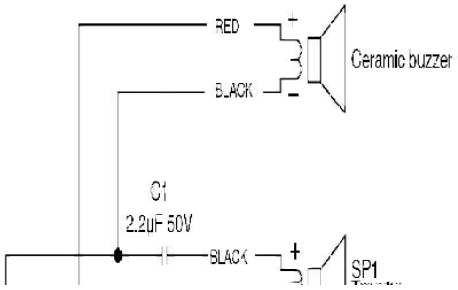
These speakers are designed to be used close to a television, but the picture may be affected with some televisions and set-up combinations.

If this occurs, turn the television off for about 30 minutes

The television's demagnetizing function should correct the problem. If it persists, move the speakers further away from the television.

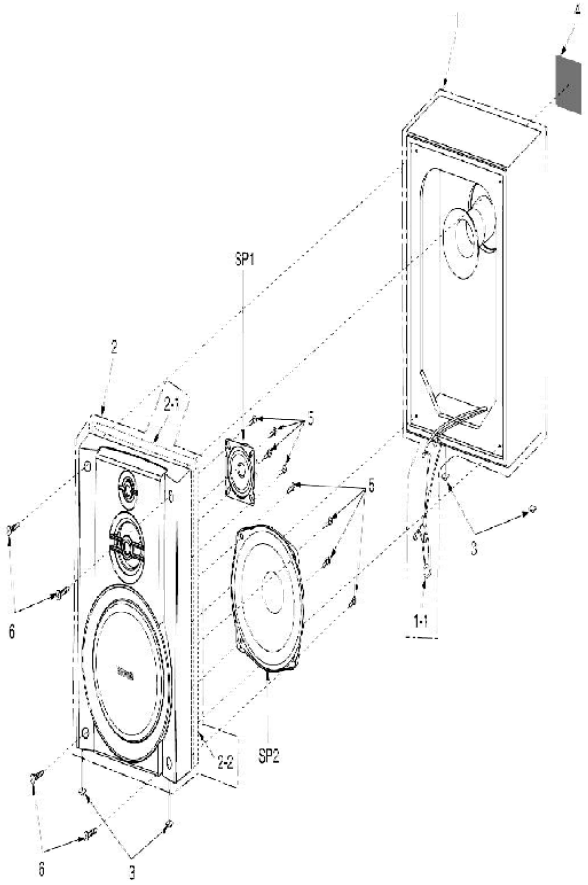
Caution
- Use the speakers only with the recommended system. Failure to do so may lead to damage to the amplifier and/or the speakers, and may result in the risk of fire. Consult a qualified service person if damage has occurred or if you experience a sudden change in performance.
- Do not attach these speakers to walls or ceilings.

3. Connection of the Wiring Diagram



4. Exploded view

4.1. Cabinet Parts Location



4.2. Packaging

5. Replacement Parts List

Notes :

- Important safety notice :

When replacing any of these components, be sure to use only manufacturer's specified parts shown in the parts list.

- [M] markings in the Remarks columns indicates parts supplied by PAVCSG.

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	RYKX0331-S	WOODEN CABINET ASS'Y	[M]
1-1	RMQX0167	CERAMIC BUZZER	[M]
2	RYBX0143-S	FRONT PANEL ASS'Y	[M]
2-1	RMQX0171-W	HIMELON (TOP/BTM)	[M]
2-2	RMQX0172-W	HIMELON (SIDE)	[M]
3	RKA0072-KJ	LEG CUSHION	[M]
4	RGNX0385-K	SPEC LABEL	[M]
5	XTB4+10JFJ	SCREW	[M]
6	XTB4+16AFJK	SCREW(STAND)	[M]
		CAPACITOR	
C1	ECA1HAY2R2S	2.2uf 50V	[M]
		PACKING MATERIALS	
P1	RPNX0421	POLYFOAM SET	[M]
P2	RPFX0108-2	MIRAMAT	[M]
		SPEAKERS	
SP1	EAST6PH08A6	TWEETER	[M]
SP2	L0AA16A00032	WOOFER	[M]

FLE0603W/S